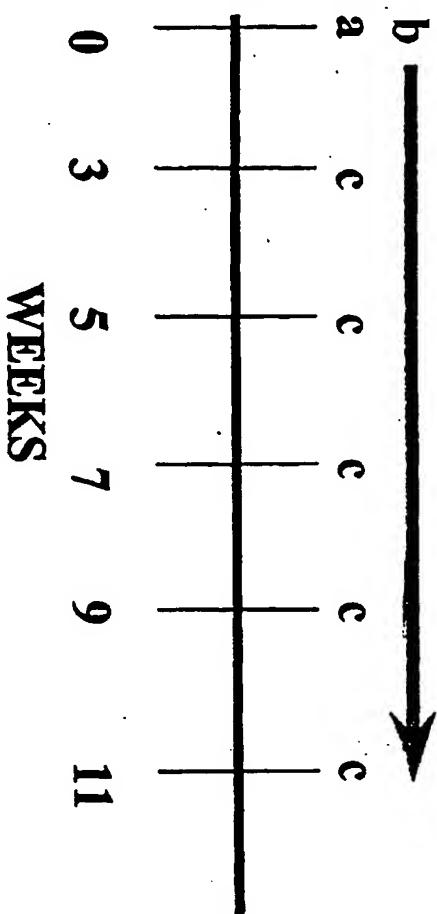


# Experimental Design

FIGURE 1A

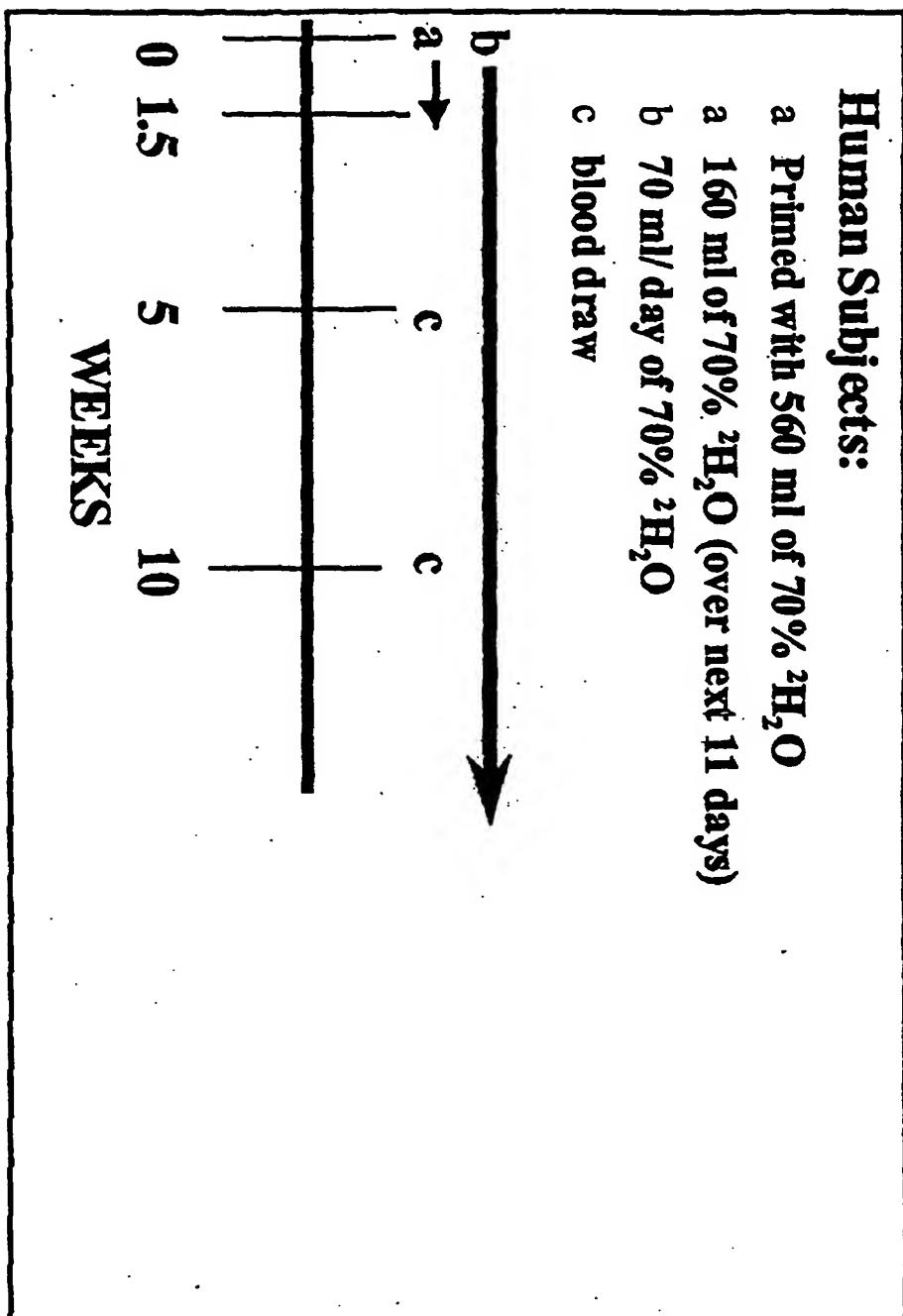
Animals: Normal Male Sprague Dawley Rats

- a Primed with 100 %  $^{2}\text{H}_2\text{O}$  via intra-peritoneal injection to achieve 2%  $^{2}\text{H}_2\text{O}$  in Body Water
- b 4%  $^{2}\text{H}_2\text{O}$  Drinking Water
- c Sacrifice



# Experimental Design

FIGURE 1B



## Hindlimb mtDNA

% New Mitochondria

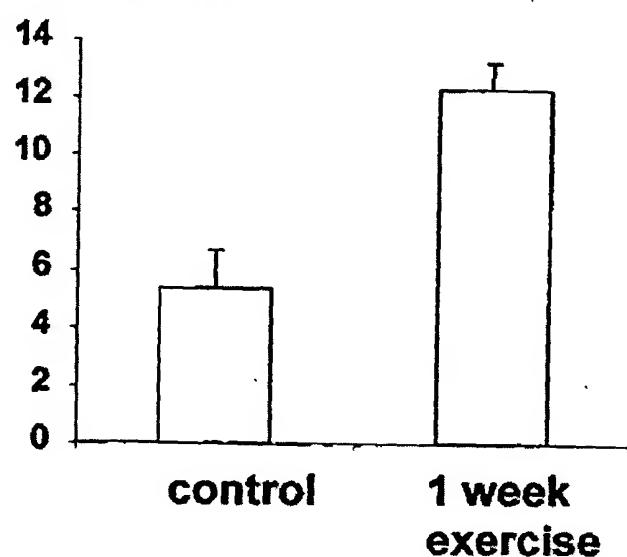
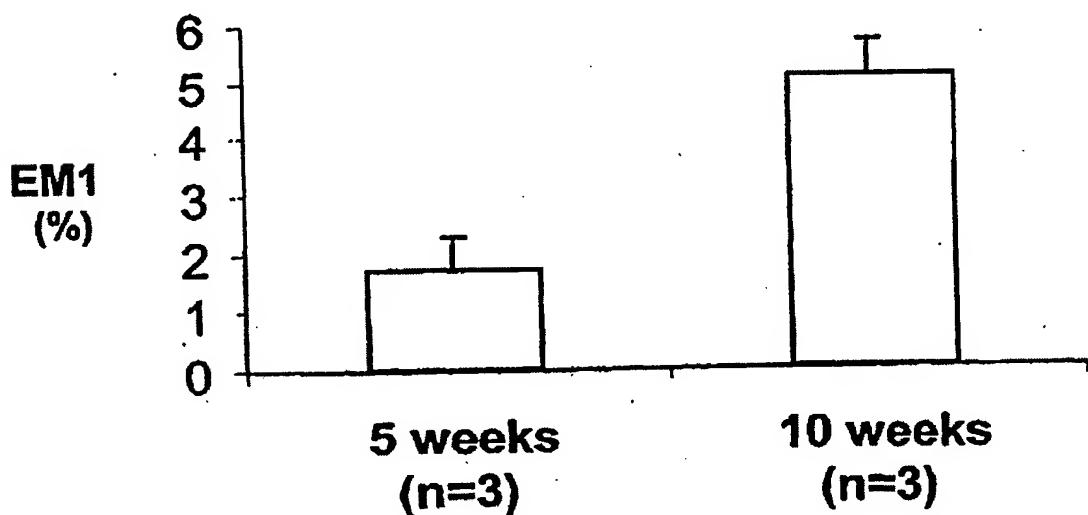
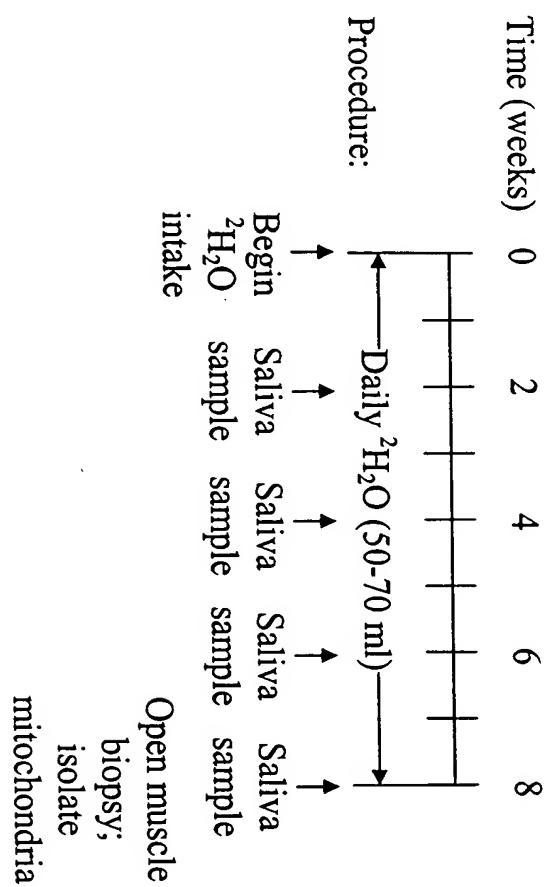


FIGURE 2A

**FIGURE 2B**  
**Platelet Enrichment from**  
**Human Subjects on  $^{2}\text{H}_2\text{O}$**





**FIGURE 3A**

# Platelet Enrichment from Human Subjects on ${}^2\text{H}_2\text{O}$

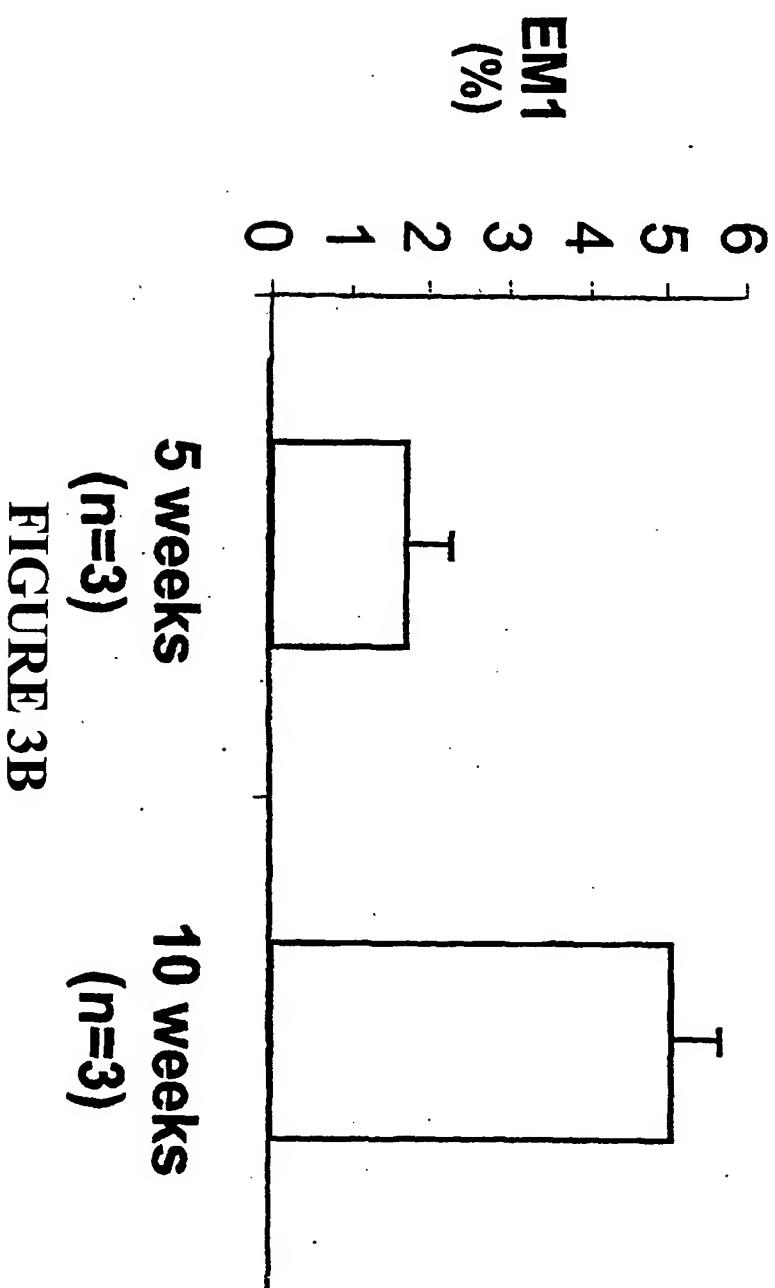
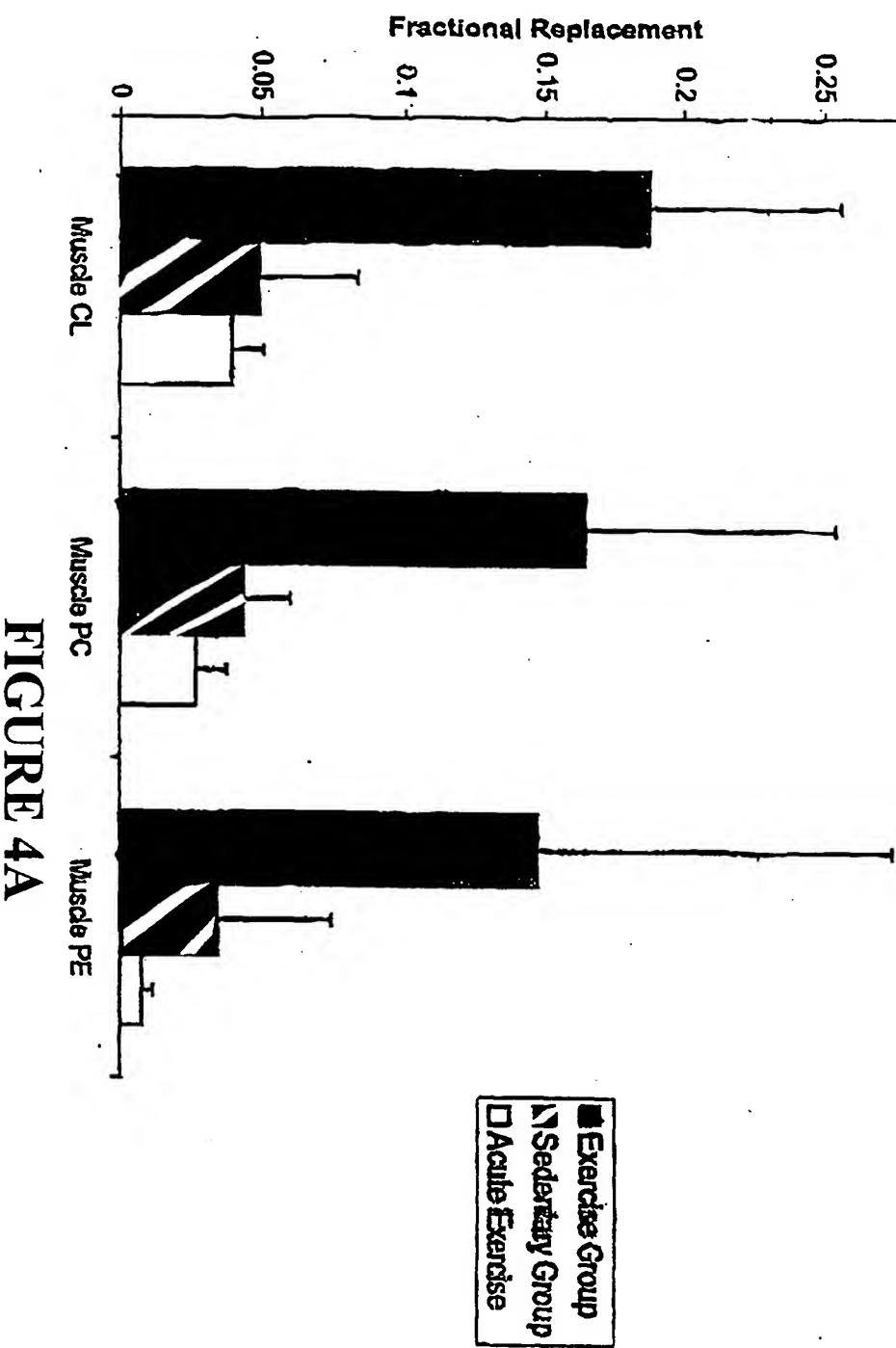


FIGURE 3B

Fractional Replacement of Phospholipids In  
**Hindlimb Muscle of Female Sprague Dawley Rats**



**FIGURE 4A**

Fractional Replacement of Phospholipids in  
Heart Muscle of Female Sprague Dawley Rats

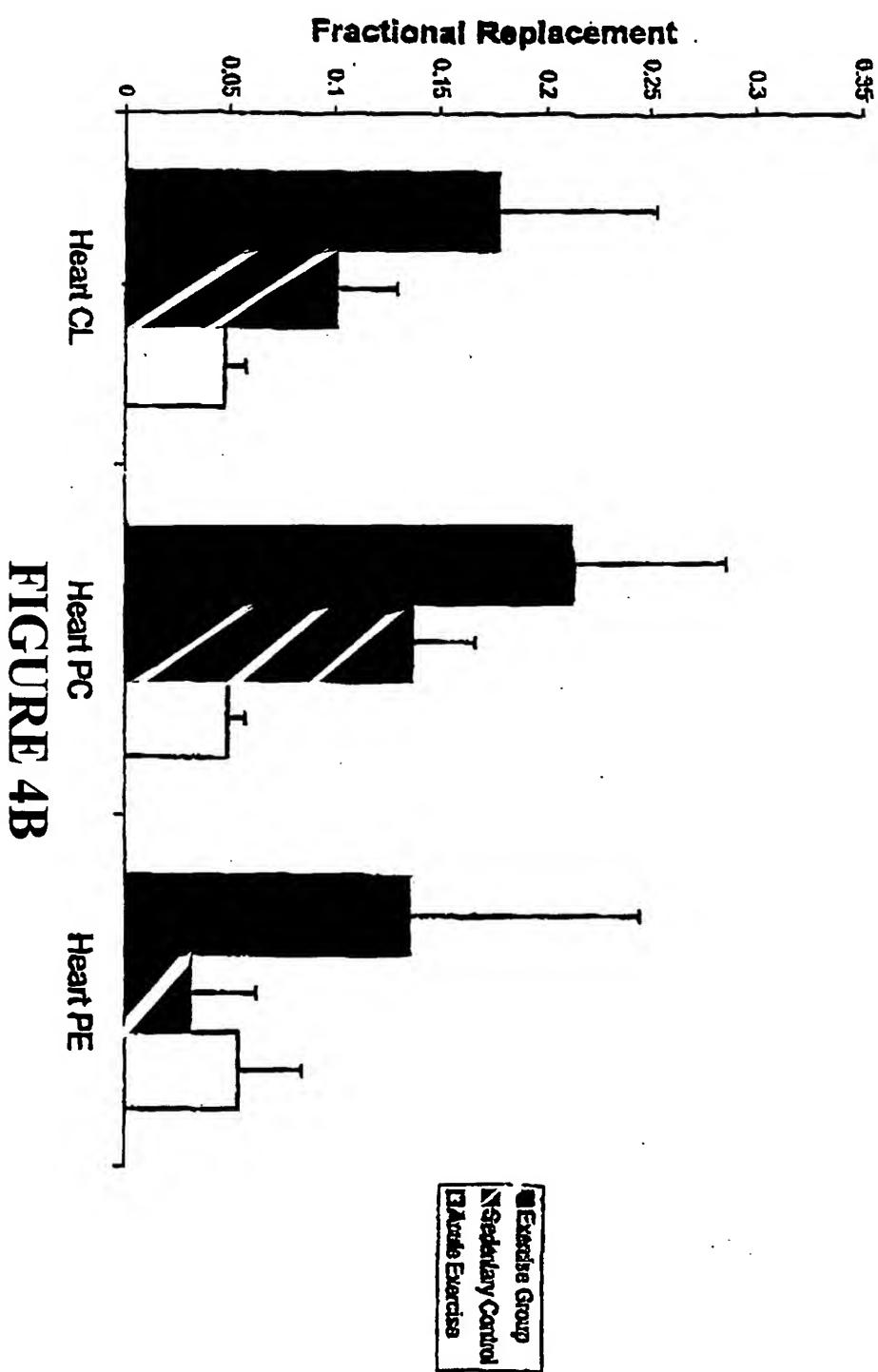


FIGURE 4B

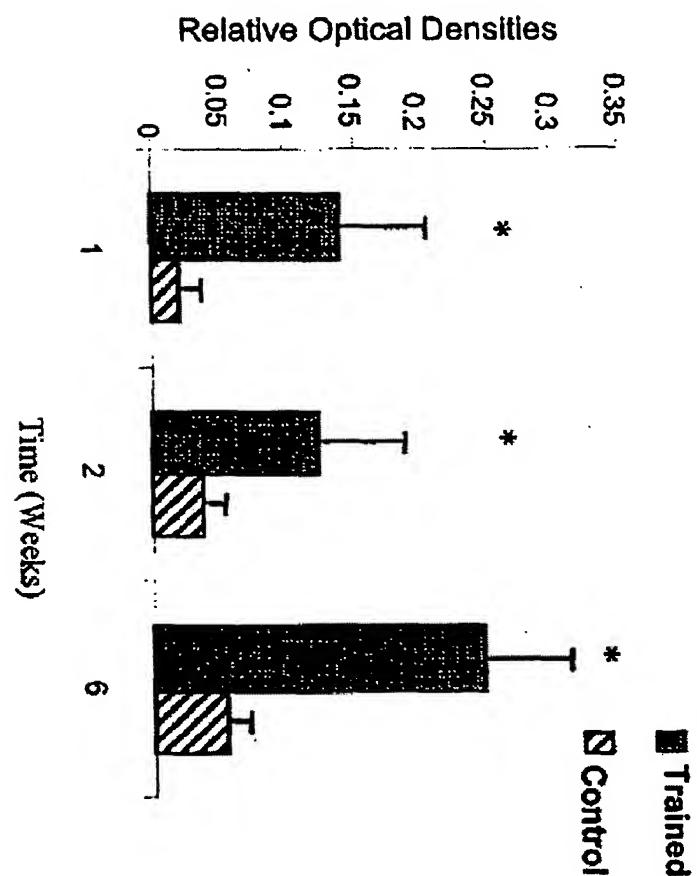
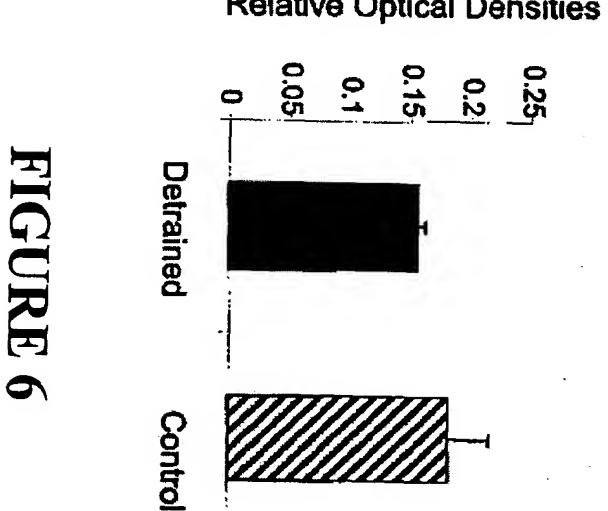


FIGURE 5



**FIGURE 6**